

<b>REQUEST FOR QUOTATIONS</b> <b>(THIS IS NOT AN ORDER)</b>		THIS RFQ <input checked="" type="checkbox"/> IS <input type="checkbox"/> IS NOT A SMALL BUSINESS SET-ASIDE			PAGE    OF PAGES 1                      3	
1. REQUEST NO. W911XK-04-T-0037	2. DATE ISSUED 14-Apr-2004	3. REQUISITION/PURCHASE REQUEST NO.		4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DMS REG. 1	RATING	
5a. ISSUED BY CONTRACTING DIVISION DETROIT DISTRICT, USAED P.O. BOX 1027 DETROIT MI 48231-1027				6. DELIVER BY (Date)  <b>SEE SCHEDULE</b>		
				7. DELIVERY [ X ] FOB                                      [   ] OTHER DESTINATION                                      (See Schedule)		
5b. FOR INFORMATION CALL: (Name and Telephone no.) (No collect calls) SHARON A LAWRENCE                                      (313) 226-6421						
8. TO: NAME AND ADDRESS, INCLUDING ZIP CODE				9. DESTINATION (Consignee and address, including ZIP Code)  <b>SEE SCHEDULE</b>		
10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a ON OR BEFORE CLOSE OF BUSINESS: (Date)    21-Apr-2004						
<b>IMPORTANT:</b> This is a request for information, and quotations furnished are not offers. If you are unable to quote, please so indicate on this form and return it to the address in Block 5a. This request does not commit the Government to pay any costs incurred in the preparation of the submission of this quotation or to contract for supplies or services. Supplies are of domestic origin unless otherwise indicated by quoter. Any representations and/or certifications attached to this Request for Quotations must be completed by the quoter.						
11. SCHEDULE (Include applicable Federal, State, and local taxes)						
ITEM NO. (a)	SUPPLIES/ SERVICES (b)		QUANTITY (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)
	<b>SEE SCHEDULE</b>					
12. DISCOUNT FOR PROMPT PAYMENT		a. 10 CALENDAR DAYS %	b. 20 CALENDAR DAYS %	c. 30 CALENDAR DAYS %	d. CALENDAR DAYS No.                      %	
<b>NOTE: Additional provisions and representations [   ] are [   ] are not attached.</b>						
13. NAME AND ADDRESS OF QUOTER (Street, City, County, State, and ZIP Code)			14. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION		15. DATE OF QUOTATION	
			16. NAME AND TITLE OF SIGNER (Type or print)		TELEPHONE NO. (Include area code)	

## Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001		1	Lump Sum		
	FY 04 M/D Frankfort Harbor, Michigan				
	FFP				
	Mobilization and Demobilization				

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002		21,000	Cubic Yard		
	Dredging - Frankfort harbor				
	FFP				

TOTAL AMOUNT OF PROPOSAL \$\_\_\_\_\_

## NOTE:

CONTRACTOR SHALL FURNISH ALL PLANT, LABOR, MATERIAL, EQUIPMENT, ETC. NECESSARY TO PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE TERMS AND CONDITIONS SET FORTH IN THE CONTRACT TO INCLUDE ALL ATTACHMENTS THERETO. UNIT PRICES PROVIDED BELOW WILL BE USED TO DETERMINE LOW BID.

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## Section F - Deliveries or Performance

## DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001	31-MAY-2004	1	N/A FOB: Destination	
0002	31-MAY-2004	21,000	N/A FOB: Destination	

1. Mobilize dredge to Frankfort Harbor and begin dredging between sta. 18+13.3W and 13+00.8E. Deposit the dredged materials onto the shoreline disposal site beginning at a point 1500 ft, north of the north breakwater, then extending 1500 ft. northerly. Placement along the shoreline shall be as stated in SECTION 02482, paragraph 3.3.2 Government-Furnished Placement Area of the specifications. However for this Task Order, the landward limit of placement shall be the +2.0 ft. contour. See accompanying drawings. Demobilize when work is completed.

2. Wage Rates for this Task Order shall be as specified in the basic Contract. Wage Decision IL030018, dated February 27, 2004 as attached.

3. The work for this task order shall conform to the contract specifications, this scope of work and the drawings identified on the following index:

FILE	DRAWING
Frankfort Harbor, MI FY04 Maintenance Dredging Dredge Plan, Notes, Legend and Section	1

4. Generally, the survey information will be based on channel condition soundings collected in the winter or spring of the current dredging year. Final pay yardage will be determined by prior to dredging soundings and after dredging construction surveys. If agreeable to both the Government and the Contractor, condition surveys utilized for determining the task order bid quantities may be used as the prior to dredging construction soundings. Bench mark and horizontal control point detailed sheets for

this task order are attached to this scope of work. An index of those sheets is provided as follows:

B.M. Gate  
36-A  
36-B  
Flag  
B.M. WL-216

5. Performance Schedule: The Contractor shall be required to (a) commence work under this contract within 5 calendar days after the date the Contractor receives the notice to proceed on the task order, (b) prosecute the work diligently, and (c) complete the entire work ready for use not later than May 31, 2004. The time stated for completion shall include final cleanup of the premises. It is anticipated that the Task Order will be issued no later than April 19, 2004.

6. The estimated overdepth quantity for this task order is 5000 Cubic Yards, and the estimated sideslope quantity is 4000 cubic yards.

7. The character of materials for this dredging work as described in SECTION 02482 paragraph 1.3.1 Character of Materials in the contract specifications is superceded by the following Character of Materials description:

"The material to be removed within the required pay prism consists primarily of the shoaling that has occurred since the last time the area was dredged. The shoaled material consists of sand with some organics. Virgin material may be encountered within the allowable pay prism. Virgin material consists of medium to very dense sand with some gravel."

8. Tolerance Dimensions:

Side Slope Tolerance: 25 feet horizontal.  
Shoal Tolerance : 0.5 feet vertical.

9. Special Project Procedures: There are no additional special project procedures, besides those identified in this scope of work, and the contract specifications.

10. Identify Equipment to be utilized for this Task Order.

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**General Decision Number: IL030018 02/27/2004**

General Decision Number: IL030018 02/27/2004

Superseded General Decision Number: IL020018

State: Illinois

Construction Types: Heavy (**Dredging**, and Marine)

Counties: Illinois Statewide.

**MECHANICAL DREDGING (CLAMSHELL, DRAGLINE, AND BACKHOE) AND MARINE CONSTRUCTION):**

ILLINOIS, INDIANA, **MICHIGAN**, MINNESOTA, NEW YORK, OHIO, PENNSYLVANIA AND WISCONSIN **DREDGING AND MARINE CONSTRUCTION**

**Dredging** and Marine Construction Projects: floating/land equipment engaged in clamshell, backhoe and dragline **dredging**, marine construction, bridges, salvage operations and cranes, loaders, dozers, or other equipment used for disposal of dredge spoils or marine construction materials on land at the slip or dock, at the project site, where the above material/spoils is being handled, and all equipment utilized on breakwall/breakwater structures on the Great Lakes, Islands therein, their connecting and tributary waters, including the Illinois Waterway to the Lock at Lockport, Illinois, the New York State Barge Canal System between Tonawanda, New York and Waterford, New York and Oswego, New York, the Duluth-Superior area to the Fond du Lac Bridge Crossing (Minnesota State Highway 23) on the St. Louis River and on the St. Lawrence River eastward to the International Boundary near St. Regis, New York.

Modification Number      Publication Date

0      06/13/2003

1      02/27/2004

\* SUIL2003-001 01/01/2004

**MECHANICAL DREDGING (CLAMSHELL, DRAGLINE, AND BACKHOE) AND MARINE CONSTRUCTION):**

Rates      Fringes

**Dredging:**

Fireman, Oiler,  
Deckhand, & Scowman  
(with dipper, hydraulic  
or other floating  
equipment engaged in  
hydraulic and dipper  
**dredging** operations)  
Pipeline men (both  
afloat & ashore  
including loading,  
unloading, maintaining,  
and handling pipelines  
for hydraulic dredges  
and sandboats Rangeman,  
Tankerman, Sweepman and

service Truck Driver.....\$ 22.51

7.61+a+b

Lead Deckhand.....\$ 29.68

7.61+a+b

**Hydraulic Dredging**

LAUNCH OPERATOR -

Vessel 800 Horse- Power

Or Less.....\$ 25.15

7.61+a+b

TUG ENGINEER.....\$ 26.49

7.61+a+b

TUG OPERATOR - Vessel		
Over 800 Horse-Power.....\$ 26.49		7.61+a+b
TUG WORKERS: Fireman,		
Lineman, Oiler,		
Deckhand, Tankerman,		
Scowman, (on/or with		
tugboats, launches, or		
other self-propelled		
boats).....\$ 22.51		7.61+a+b
Mechanic		
FLOATING EQUIPMENT:		
Illinois		
Class I.....\$ 40.50		12.00+b&c
Class II.....\$ 39.00		12.00+b&c
Class III.....\$ 34.70		12.00+b&c
Class IV.....\$ 28.85		12.00+b+c
FLOATING EQUIPMENT:		
Indiana		
Class I.....\$ 35.75		11.95+b&c
Class II.....\$ 34.25		11.95+b&c
Class III.....\$ 30.45		11.95+b&c
Class IV.....\$ 25.35		11.95+b&c
FLOATING EQUIPMENT:		
Michigan		
Class I.....\$ 27.50		15.23+b&c
Class II.....\$ 26.00		15.23+b&c
Class III.....\$ 23.15		15.23+b&c
Class IV.....\$ 19.25		15.23+b&c
FLOATING EQUIPMENT:		
Minnesota		
Class I.....\$ 32.55		9.10+b&c
Class II.....\$ 31.05		9.10+b&c
Class III.....\$ 27.65		9.10+b&c
Class IV.....\$ 23.00		9.10+b&c
FLOATING EQUIPMENT:		
New York: (Cattaraugus,		
Chautauga, Erie and		
Orleans Counties)		
Class I.....\$ 35.00		15.96+b&c
Class II.....\$ 33.50		15.96+b&c
Class III.....\$ 29.80		15.96+b&c
Class IV.....\$ 24.80		15.96+b&c
FLOATING EQUIPMENT:		
New York: (Cayuga,		
Jefferson, Oswego, and		
St. Lawrence Counties)		
Class I.....\$ 29.50		13.10+b&c
Class II.....\$ 28.00		13.10+b&c
Class III.....\$ 24.92		13.10+b&c
Class IV.....\$ 20.72		13.10+b&c
FLOATING EQUIPMENT:		
New York: (Monroe and		
Wayne Counties and the		
City of Rochester)		
Class I.....\$ 27.50		9.00+b&c
Class II.....\$ 26.00		9.00+b&c
Class III.....\$ 23.15		9.00+b&c
Class IV.....\$ 19.25		9.00+b&c
FLOATING EQUIPMENT:		
New York: (Niagara)		
Class I.....\$ 32.08		14.50+b&c
Class II.....\$ 30.58		14.50+b&c

Class III.....	\$ 30.84	14.50+b&c
Class IV.....	\$ 22.90	14.50+b&c

FLOATING EQUIPMENT:

Ohio: (Ashtabula,  
Cuyahoga, Erie, Lake,  
and Lorain Counties)

Class I.....	\$ 32.99	7.60+b&c
Class II.....	\$ 31.49	7.60+b&c
Class III.....	\$ 28.02	7.60+b&c
Class IV.....	\$ 23.30	7.60+b&c

FLOATING EQUIPMENT:

Ohio: (Lucas, Henry,  
Ottawa, Wood and  
Sandusky Counties)

Class I.....	\$ 31.27	7.60+b&c
Class II.....	\$ 29.77	7.60+b&c
Class III.....	\$ 26.50	7.60+b&c
Class IV.....	\$ 22.30	7.60+b&c

FLOATING EQUIPMENT:

Pennsylvania: (Erie  
County):

Class I.....	\$ 24.80	10.23+b&c
Class II.....	\$ 23.30	10.23+b&c
Class III.....	\$ 20.74	10.23+b&c
Class IV.....	\$ 17.24	10.23+b&c

FLOATING EQUIPMENT:

Wisconsin: Includes all  
marine/floating type  
work on projects in the  
Superior/Duluth Harbor,  
Lake Superior.

Class I.....	\$ 32.00	12.90+b&c
Class II.....	\$ 30.50	12.90+b&c
Class III.....	\$ 27.15	12.90+b&c
Class IV.....	\$ 22.57	12.90+b&c

PAID HOLIDAYS (WHERE APPLICABLE):

- A- NEW YEAR'S DAY
- B- MEMORIAL DAY
- C- INDEPENDENCE DAY
- D- LABOR DAY
- E- THANKSGIVING DAY
- F- CHRISTMAS DAY
- G- PRESIDENT'S DAY
- H- VETERANS' DAY

FOOTNOTES:

- a. \$30.10 per day per employee for medical
- b. Eight paid holidays: A thru H
- c. Hazardous/Toxic Waste Material:

- \*Level A \$2.50 per hour
- \*Level B 2.00 per hour
- \*Level C 1.00 per hour
- \*Level D 0.50 per hour

Such wages shall be above the classifications of work listed under mechanical **dredging** and Marine construction of this general wage decision. \*Working with Hazardous Waste at this level as defined by the U. S. Environmental Protection Agency.

CLASSIFICATION DESCRIPTIONS

- Class I - Master Mechanic - assist and direct
- Class II, Class III, and Class IV, diver/wet tender, engineer (hydraulic dredge)
- Class II - Crane/Backhoe Operator and Mechanic/Welder, assistant engineer (hydraulic dredge), leverman (hydraulic



dredge), diver/tender

Class III - Deck Equipment Operator (Machineryman)

Maintenance of Crane (over 50 ton capacity) or Backhoe (115,000 pounds or more), ug/launch operator, Loader/dozer and like equipment on Barge, breakwater wall, slip/dock, Scow, Deck Machinery, etc.

Class IV - Deck Equipment Operator (Machineryman/Fireman)

(Four equipment units or more) and Crane Maintenance 50 ton capacity and under or Backhoe weighing 115,000 pounds or less, assistant tug operator.

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

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WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter

\* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative

# The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 6.98

1 National Geodetic Survey, Retrieval Date = MARCH 18, 2004

PM0269 \*\*\*\*\*

PM0269 DESIGNATION - 908 7021 PARK USLS

PM0269 PID - PM0269

PM0269 STATE/COUNTY- MI/MANISTEE

PM0269 USGS QUAD -

PM0269

PM0269 \*CURRENT SURVEY CONTROL

PM0269

PM0269\* NAD 83(1986) - 44 15 02. (N) 086 20 20. (W) SCALED

PM0269\* NAVD 88 - 179.102 (meters) 587.60 (feet) ADJUSTED

PM0269 IGLD 85 587.23

PM0269 GEOID HEIGHT- -35.20 (meters) GEOID03

PM0269 DYNAMIC HT - 179.080 (meters) 587.53 (feet) COMP

PM0269 MODELED GRAV- 980,486.4 (mgal) NAVD 88

PM0269

PM0269 VERT ORDER - FIRST CLASS II

PM0269

PM0269.The horizontal coordinates were scaled from a topographic map and have  
PM0269.an estimated accuracy of +/- 6 seconds.

PM0269

PM0269.The orthometric height was determined by differential leveling  
PM0269.and adjusted by the National Geodetic Survey in June 1991.

PM0269

PM0269.The geoid height was determined by GEOID03.

PM0269

PM0269.The dynamic height is computed by dividing the NAVD 88  
PM0269.geopotential number by the normal gravity value computed on the  
PM0269.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45  
PM0269.degrees latitude (g = 980.6199 gals.).

PM0269

PM0269.The modeled gravity was interpolated from observed gravity values.

PM0269

PM0269; North East Units Estimated Accuracy  
PM0269;SPC MI C - 105,690. 5,842,500. MT (+/- 180 meters Scaled)

PM0269

PM0269 SUPERSEDED SURVEY CONTROL

PM0269

PM0269.No superseded survey control is available for this station.

PM0269

PM0269\_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEP527999(NAD 83)

PM0269\_MARKER: Z = SEE DESCRIPTION

PM0269\_SETTING: 35 = DOOR SILL

PM0269\_MARK LOGO: USLS

PM0269\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

PM0269+STABILITY: SURFACE MOTION

PM0269

PM0269 HISTORY - Date Condition Report By

PM0269 HISTORY - 1956 MONUMENTED USLS

PM0269 HISTORY - 1984 GOOD NGS

PM0269 HISTORY - 1990 GOOD USPSQD

PM0269 HISTORY - 20010331 MARK NOT FOUND NGS

PM0269 HISTORY - 20011013 GOOD USPSQD

PM0269 HISTORY - 20031209 GOOD USPSQD

PM0269

PM0269

STATION DESCRIPTION

PM0269

PM0269'DESCRIBED BY NATIONAL GEODETIC SURVEY 1984

PM0269'IN MANISTEE.

PM0269'IN MANISTEE, IN THE CITY PARK JUST NORTH OF THE COAST GUARD STATION ON  
PM0269'LAKE MICHIGAN, ON THE SOUTHEAST SIDE OF A COMMON BRICK BUILDING

PM0269'(UTILITY), THE HIGH POINT IS ON TOP OF A SMALL KNOB INSIDE A ROUGHLY  
PM0269'DEFINED 1/2 BY 1/2 INCH RECTANGLE FORMED BY TWO CHISELED LINES AND TWO  
PM0269'EDGES OF THE DOOR SILL (NORTH CORNER OF THE SILL), 2.6 METERS (8.5 FT)  
PM0269'NORTHEAST OF THE SOUTHEAST CORNER OF THE BUILDING, AND 0.6 METER  
PM0269'(2.0 FT) SOUTH-SOUTHWEST OF A WATER FOUNTAIN.

PM0269'THE MARK IS 0.4 M ABOVE GROUND.

PM0269

PM0269

STATION RECOVERY (1990)

PM0269

PM0269'RECOVERY NOTE BY US POWER SQUADRON 1990 (DS)

PM0269'RECOVERED IN GOOD CONDITION.

PM0269

PM0269

STATION RECOVERY (2001)

PM0269

PM0269'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2001 (DB)

PM0269'THIS REPORT WAS SUBMITTED BY THE US POWER SQUADRONS.

PM0269

PM0269

STATION RECOVERY (2001)

PM0269

PM0269'RECOVERY NOTE BY US POWER SQUADRON 2001 (DS)

PM0269'RECOVERED IN GOOD CONDITION.

PM0269

PM0269

STATION RECOVERY (2003)

PM0269

PM0269'RECOVERY NOTE BY US POWER SQUADRON 2003 (DS)

PM0269'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:00

U.S. ARMY ENGINEER DISTRICT - DETROIT

GENERAL INFORMATION

designatation: BM GATE  
reference no. GHA-0131  
project: FRANKFORT HARBOR  
channel/reach:  
sheet no. 1 of 1  
USGS Quad:  
NOAA chart:  
community: FRANKFORT  
county:  
state: MICHIGAN  
Township/Range T.00 R.00  
section: 0

ORIGIN AND HORIZONTAL DATA

agency: CENCE  
order:  
date: 01/01/73  
method:  
set by: GHAO  
POINT SOURCE(S)  
U.S. LAKE SURV  
MOST RECENT RECOVERY  
07/01/95 by TAC  
condition: GOOD

datum: NAD27  
lat: 0° 0' 0.00000" N  
lon: 0° 0' 0.00000" W  
Y: 1,141.28 ft (US) N  
X: 371,443.00 ft (US) E  
state: MICHIGAN  
projection: TRANS. MERC.  
zone: C  
code: 2102

VERTICAL

IGLD 1955: 0.000  
IGLD 1985: 0.000 0.000  
NAVD 1988: 0.000 0.000  
NGVD 1929: 0.000 0.000  
pt. source: U.S. LAKE SURVE  
geoid. hgt: 0.000 0.000

PROPERTY OWNER  
GUARD STATION

access:  
cat

SKETCH

DESCRIPTION  
B.M. GATE IS A 1 INCH DIAMETER IRON ROD SET 1 TO 1.5 FEET  
BELOW GROUND LEVEL. B.M. GATE IS LOCATED AT THE U.S. COAST  
GUARD STATION ENTRANCE BETWEEN TWO 2 FOOT SQUARE BRICK POSTS  
6 FT. HIGH AND 4 FT APART, 2.5 FT. SOUTHEAST OF SOUTHEAST  
CORNER OF THE WEST POST, 2.5 FT. SOUTHWEST OF SOUTHWEST  
CORNER OF THE EAST POST, 0.5 FT. FROM THE FOUNDATION.

2nd St

BM GATE



U.S. Coast Guard  
STATION

\$91.00

Note: Level work on 25-26 Aug 98 to establish  
IGLD85. Station Bm Gate IGLD 85 elevation

GPS VISIBILITY:

Ref #

GHA-0131

Desig:

BM GATE

1.) = 2.5'  
2.) = 2.5'

Grand Haven Area Office

Printed on 02/28/96

U.S. ARMY ENGINEER DISTRICT - DETROIT

GENERAL INFORMATION

designation: FLAG  
reference no. GHA-0037  
project: FRANKFORT HARBOR  
channel/reach:  
sheet no. 1  
USGS Quad:  
NOAA chart:  
community: FRANKFORT  
county: BENZIE  
state: MICHIGAN  
Township/Range T.00N R.00E  
section: 0

ORIGIN AND HORIZONTAL DATA

agency: CENCE  
order: THIRD  
date: 04/01/93  
method: CLOSED TRAVERSE  
set by: GHRO  
POINT SOURCE(S)  
GOSLING/CZUBAC  
MOST RECENT RECOVERY  
05/01/93 by B. WALORY  
condition: GOOD

VERTICAL

	feet	meters
IGLD 1955:	0.000	0.000
IGLD 1985:	0.000	0.000
NAVD 1988:	0.000	0.000
NGVD 1929:	0.000	0.000
pt. source:	UNCLASSIFIED	
geoid. hgt:	0.000	0.000

PROPERTY OWNER

access:  
car, fwd, boat, hike

DESCRIPTION

STATION FLAG IS A STANDARD SURVEY DISC SET FLUSH IN A CONCRETE PAD OF THE FLAG TOWER AT THE COAST GUARD STATION. THE TOWER IS SOUTH WEST OF THE STATION AND EAST OF THE PARKING LOT ON THE NORTH SIDE OF THE RIVER.

SKETCH

REMARK  
LOT

STA. FLAG

Note: Level work on 25-26 Aug 98 to establish

ICAD85. Station Flag ICAD85 Elevation

Hydraulic Corrector of 0.2 added = 590.56

GPS VISIBILITY:

Ref #

GHA-0037

Design:

FLAG

CHANNEL  
Flow

Grand Haven Area Office

Printed on 02/27/96

## U.S. ARMY ENGINEER DISTRICT - DETROIT

## ORIGIN AND HORIZONTAL DATA

## GENERAL INFORMATION

designation: 36A  
reference no. GHA-0030

project: FRANKFORT HARBOR  
channel/reach:

sheet no. 1  
USGS Quad:  
NOAA chart:

community: FRANKFORT  
county: BENZIE  
state: MICHIGAN  
Township/Range T.00N R.00E  
section: 0

agency: CENCE

order: THIRD

date: 04/01/94

method: CLOSED TRAVERSE

set by: GHAC

POINT SOURCE(S)  
GOSLING/CZUBAC

MOST RECENT RECOVERY  
05/01/93 by B. MALLORY  
condition: GOOD

datum: NAD83 \*

lat: 44° 37' 45.66981" N

lon: 86° 15' 7.63038" W

Y: 484,851.20 ft (US) N  
X: 19,194,223.82 ft (US) E

state: MICHIGAN  
projection: LAMBERT  
zone: C  
code: 2112

\* NAD83 values via Corpcon

VERTICAL feet meters

IGLD 1955: 0.000

IGLD 1985: 0.000 0.000

NAVD 1988: 0.000 0.000

NGVD 1929: 0.000 0.000

pt. source: UNCLASSIFIED

geoid. hgt: 0.000 0.000

PROPERTY OWNER

access:  
car, fwd, boat, hike

## DESCRIPTION

STATION 36A IS A CHISELED "X" IN THE TOP OF THE NORTH BREAK-WATER. THE "X" IS LOCATED 22.2 FEET EAST OF THE EAST EDGE OF THE NAVIGATION LIGHT BASE BLOCK AT THE WEST END OF THE BREAKWATER AND 3.6 FEET NORTH OF THE BASIN SIDE TOP OF THE BREAKWATER.

GPS VISIBILITY:

Ref #

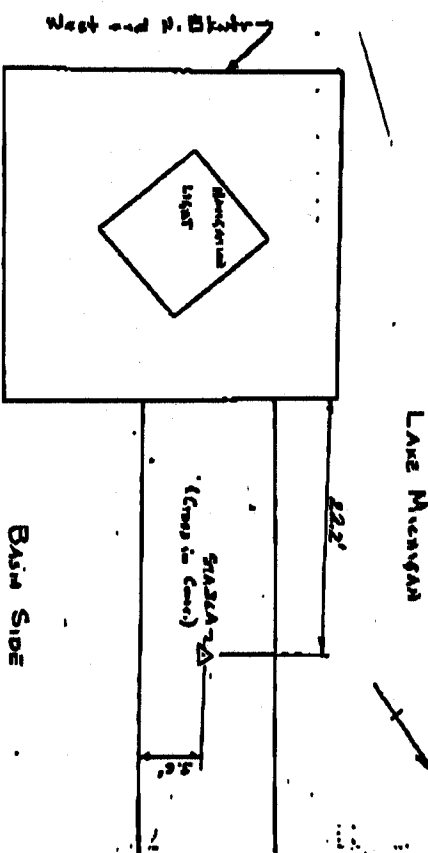
GHA-0030

Desig:

36A

Grand Haven Area Office

## SKETCH



## U.S. ARMY ENGINEER DISTRICT - DETROIT

## ORIGIN AND HORIZONTAL DATA

## GENERAL INFORMATION

designation: 36B  
reference no. GHA-0029

project: FRANKFORT HARBOR  
channel/reach:

sheet no. 1

USGS Quad:

NOAA chart:

community: FRANKFORT

county: BENZIE

state: MICHIGAN

Township/Range T.00N R.00E

section: 0

agency: CENCE

order: THIRD

date: 04/01/93

method: CLOSED TRAVERSE

set by: GHAC

POINT SOURCE(S)

GOSLING/CZUBAC

MOST RECENT RECOVERY

05/01/93 by B. MALLORY

condition: GOOD

## VERTICAL

feet meters

IGLD 1955: 0.000

IGLD 1985: 0.000 0.000

NAVD 1988: 0.000 0.000

NGVD 1929: 0.000 0.000

pt. source: UNCLASSIFIED

geoid. hgt: 0.000 0.000

## PROPERTY OWNER

access:  
car, fwd, boat, hike

36-B

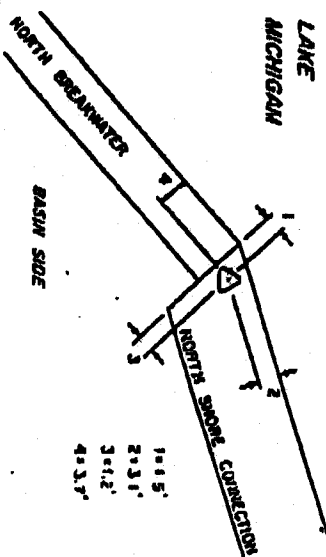
## SKETCH

NAD27

N 1,142,149.26

E 369,886.42

GROSS IN CONCRETE



DESCRIPTION  
STATION 36B IS A CHISELED "X" IN THE TOP WEST END OF THE NORTH SHORE CONNECTOR AND BREAKWATER JOINT. IT IS LOCATED 1.2 FEET EAST OF THE JOINT AND 3.1 FOOT SOUTH OF THE TOP OF THE CONNECTOR (THIS IS THE LAKE SIDE).

GPS VISIBILITY:

Ref #

GHA-0029

Desig:

36B

Grand Haven Area Office

Printed on 02/27/96

# SURVEY CONTROL DATA

STATION DESIGNATION WL 216 FILE \_\_\_\_\_ SHEET \_\_\_\_\_ NUMBER \_\_\_\_\_  
 PROJECT Frankfort Harbor CHANNEL/REACH \_\_\_\_\_  
 QUAD \_\_\_\_\_ NOAA CHART# \_\_\_\_\_  
 CITY/TWP Frankfort COUNTY Benzie STATE MI TWP 26N RANGE 16W  
 MARKER TYPE Standard Disc SET BY \_\_\_\_\_ OFFICE/AGENCY U.S.L.S.  
 DATE SET 1935 ORIGIN OF CONTROL: HORIZ. \_\_\_\_\_ VERT. \_\_\_\_\_

## HORIZONTAL

DATUM \_\_\_\_\_ LATITUDE \_\_\_\_\_ LONGITUDE \_\_\_\_\_  
 SPC Y \_\_\_\_\_ (NORTHING) X \_\_\_\_\_ (EASTING)  
 STATE \_\_\_\_\_ PROJECTION \_\_\_\_\_ ZONE \_\_\_\_\_ CODE \_\_\_\_\_

## AZIMUTH MARK

## GRID AZ

85 594.48 VERTICAL  
 ELEV. IN FEET: IGLD \_\_\_\_\_ NGVD \_\_\_\_\_ NAVD 88 \_\_\_\_\_ OTHER \_\_\_\_\_  
 PROPERTY OWNER \_\_\_\_\_ ACCESS NOTES \_\_\_\_\_

<u>DATE</u>	<u>RECOVERY/REVISIONS/REMARKS</u>	<u>BY</u>
<u>Aug 91</u>	<u>Found as Recorded</u>	<u>Paquette</u>
_____	_____	_____
_____	_____	_____

## DESCRIPTION

B.M. WL 216, (1935), is at Frankfort, Benzie County, Michigan, at the Coast Guard Station, on south side of the old Lightkeeper's dwelling, 15.5 feet from the southeast corner, 3 feet above the ground, being highest point on top of bronze disc set into top of the sloping concrete water table.